

ULTRAFILTRATION MEMBRANE

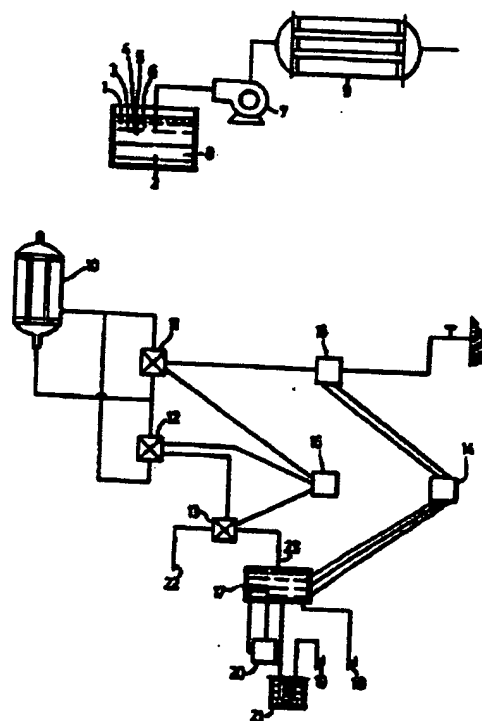
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Cited documents:

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US2593540
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Abstract of WO9011120

An ultrafiltration membrane is formed on an extrafiltrator for use in a water purification system. The ultrafiltration membrane has a membrane material which may be furan, furfural, furfona, furfonal and furfuryl alcohol. The membrane has a thickness of from 50 microns to 40,000 microns and contains pores having a diameter of from 50 ANGSTROM to 100 ANGSTROM. A method for forming such a membrane dynamically within the pores of an extrafiltrator is also provided. The method includes the preparation of a membrane forming solution containing a membrane forming material, a solvent, a diluent, a plasticizer, a curing agent and a pore forming agent and passing the membrane forming solution through the extrafiltrator to cause a membrane to deposit within the pores of the extrafiltrator, to crosslink and fixate in the pores. A method for filtering water using such an ultrafiltration membrane is provided. The method includes the steps of passing water through an extrafiltrator having such an ultrafiltration membrane deposited thereon and periodically stopping the flow of water into the extrafiltrator to allow unfiltered water to drain from the extrafiltrator.



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